



BIOLOGY >> Prokaryotes

Q 1

Who coined the term Animalcules for microorganisms like Bacteria and protozoa?

A

Robert Koch

B

Louis Pasteur

C

Alexander Fleming

D

Leeuwenhoek

[< Previous Question](#)[Next Question >](#)

Q 2

The time when the sex organs start to become active is called:

A the fertile period

B adulthood

C pregnancy

D puberty

SKIPPED QUESTIONS 

1

 Previous Question

Next Question 

Q 3

Two species can avoid competition, and better use the environment's resources by occupying different?

A

adaptations

B

polymorphism

C

niches

D

specialization

SKIPPED QUESTIONS 

2

[< Previous Question](#)[Next Question >](#)

Q 4

Spinal cord is the part of the:

A

Peripheral nervous system

B

Central nervous system

C

Autonomic nervous system

D

None of these

3

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 5

The ability to pass on genes is defined as which of the following?

A

differential reproduction

B

evolution

C

natural selection

D

fitness

4

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 6

Mutations in the sequence of genes are carried by only

A

locus

B

population

C

allele

D

genetic sequence

5

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 7

The gap in the myelin sheath between adjacent Schwann cells is called?

A

dendrite

B

soma

C

node of ranvier

D

stroma

6

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 8

The glycerols are considered backbone of

A

DNA

B

RNA

C

ATP

D

Triglycerides

SKIPPED QUESTIONS



7

< Previous Question

Next Question >

Q 9

Which statement is incorrect about ethylene production?

A Climacteric is burst of respiratory activity in fruit ripening

B It is associated with ethane production

C It helps in fruit ripening

D It helps in fruit set

8

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 10

The floor of the chest is called:

A

alveoli

B

trachea

C

diaphragm

D

bronchi

9

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 11

Viruses that attack bacteria are called?

A

Virophage

B

Lysophage

C

Bacteriophage

D

None of the above

SKIPPED QUESTIONS 

10

 Previous Question

Next Question 

Q 12

Chlorophyll is insoluble in?

A

Water

B

Carbon tetrachloride

C

Alcohol

D

Organic Solvents

11

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 13

A group of ribosomes attached to mRNA is known as?

A polymer

B polypeptide

C polysomes

D monomer

SKIPPED QUESTIONS 

12

 Previous Question

Next Question 

Q 14

The outermost layer in a typical plant cell would be _____.

A

Primary cell wall

B

Secondary cell wall

C

Middle lamellae

D

Cell surface membrane

13

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 15

The substrate binds to specific region of enzyme called?

A

key

B

active site

C

hyperactive site

D

none of these

14

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 16

Which statement correctly outlines some of the main events in photosynthesis?

A

A 5C carbohydrate accepts carbon dioxide and is then reduced by NADPH derived from photophosphorylation

B

A 3C carbohydrate is regenerated and reduced by hydrogen molecules derived from photophosphorylation.

C

Photolysis uses light to produce reduced NADP and oxygen which are used to reduce a 3C carbohydrate.

D

Photolysis produces NADPH and ATP which are used to reduce a 5C carbohydrate

15

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 17

What structure marks the separation between two sarcomeres?

A

I band

B

H zone

C

A band

D

Z line

16

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 18

The oxidation phase of glycolysis is?

A

energy consuming

B

energy yielding

C

net neutralization of energy

D

both a and c

17

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 19

Cell wall is only absent in following group of bacteria

A

staphylococci

B

Pseudomonas

C

Diplococcus pneumonia

D

Mycoplasmas

18

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 20

The organelle serving as a primary packaging area for molecules that will be distributed throughout the cell is?

A

vacuole

B

plastids

C

lysosomes

D

golgi apparatus

19

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 21

The numbers of capsomeres found in herpes virus capsid is?

A

162

B

200

C

234

D

155

SKIPPED QUESTIONS



20

< Previous Question

Next Question >

Q 22

What is the viral nucleocapsid made up of?

A

genome and capsid

B

capsid and spikes

C

envelope and capsid

D

capsomere and genome

21

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 23

The number of spinal nerves along the spinal cord is

A

16

B

20

C

31

D

33

22

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 24

XXY in case of Drosophila is a:

A

Fertile male

B

Sterile female

C

Fertile female

D

Sterile male

23

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 25

What happens during muscle contraction to the length of each myosin and actin filament?

A

A band becomes short

B

I band elongates

C

There is no change in sarcomere

D

Z- lines get closer

24

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 26

The spermatic cord and spermatic duct are?

A

the same

B

different

C

same in function

D

same in location

25

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 27

How does each photoexcited electron pass from PS1 to PS2?

A

ETC

B

chemiosmosis

C

photolysis

D

photosynthesis

26

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 28

Lipids have great functional significance in the human body. What is the main functions of the lipids?

A energy source

B structure of membrane

C mechanical protection

D all of these

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 29

The function of the centrosome is?

A

osmoregulation

B

secretion

C

protein synthesis

D

formation of spindle fibres

28

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 30

What is meant by enzyme denaturation?

A Peptide bonds between amino acid residues are broken.

B The enzyme loses its secondary structure.

C The enzyme loses its tertiary structure.

D All of the above.

29

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 31

Darwins theory mainly focuses on

A

origin of life

B

how organs extinct

C

how new species arise

D

how organisms form

30

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 32

The existence of microbes was confirmed by

A

Robert Kuch is work

B

Louis Pasteur's work

C

Linneaus's work

D

Ernst Hackel's work

31

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 33

All of the following are the current preventive methods of HIV infection, except?

A

safe and protected lifestyle

B

use of sterile injections and needles

C

use of available vaccines

D

safe blood transfusion methods

32

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 34

The single main opening of the sponge cavity is known as?

A

Ostia

B

Osculum

C

Spongocoel

D

both a and b

33

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 35

Which part of the nervous is responsible for controlling reflex action?

A Corpus callosum

B Pons

C vermis

D spinal cord

34

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Q 36

In what category of bacteria does Neisseria most likely fall?

A

cocci

B

bacilli

C

spirochete

D

none of these

35

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 37

The skeleton of sponges is made up of which of the following?

A

Calcium

B

Silica

C

both a and b

D

none of these

36

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 38

Feedback inhibition in most metabolic pathways involves which type of enzymes?

A

Holoenzymes

B

Coenzymes

C

Apoenzymes

D

Allosteric enzymes

37

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 39

Most of the fossils are found in which of the following?

A

Metamorphic rocks

B

soil

C

Volcanic mountains

D

Sedimentary rocks

38

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 40

The process through which organisms get oxygen for their cells from their surrounding environment is known as

A Respiratory exchange

B Gaseous exchange

C Diffusion

D Osmosis

39

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 41

The double layered thin membranous sacs that cover lungs are called:

A

alveoli

B

diaphragm

C

epithelial membrane

D

pleura

SKIPPED QUESTIONS



< Previous Question

Next Question >

Q 42

Prokaryotes are considered to be evolved how many years ago?

A

1.5 billion years ago

B

4.5 billion years ago

C

1000 million years ago

D

3.5 billion years ago

41

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 43 True metamorphosis is not present in which of the following?

A Crustacea

B Insecta

C Myriapoda

D Arachnida

SKIPPED QUESTIONS 

42

 Previous Question

Next Question 

Q 44

Which scientists gave postulate that giraffes have long necks because they wanted to eat the leaves of tall trees?

A Watson and Crick

B Lamarck

C Darwin

D All of these

43

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 45

The spent energy in the form of ADP is regenerated by mitochondria into which of the following form?

A

AMP

B

ATP

C

ADP

D

all of these

44

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 46

Binding of myosin head to actin generates muscle contraction. After muscle contraction the myosin head has to be removed from the actin. Which of the following accomplishes this task?

A Binding of ATP to tropomyosin

B Binding of calcium to troponin

C Binding of troponin to actin

D Binding of ATP to myosin head

45

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 47

The most important function of troponin is?

A

bind with actin

B

bind with Ca^{2+} ions.

C

bind with tropomyosin.

D

all of these

46

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 48

Enteron in coelenterates acts as which of the following?

A digestive cavity

B body cavity

C transporting cavity

D all of these

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 49

Asexual reproduction requires only a single parental organism which gives rise to offspring by?

A Meiotic cell division

B Mitotic cell division

C both a and b

D none of these

48

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 50

Which cells secrete pepsinogen?

A

Mucous

B

Parietal

C

Zymogen

D

Oxyntic

49

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 51

The experiment that simulated conditions thought to be present on the early earth

A

Hershey Chase experiment

B

Geiger Marsden experiment

C

Schiehallion experiment

D

Miller-Urey experiment

50

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 52

Breaking of terminal phosphate of ATP releases about Kcal of energy?

A

6.1

B

6.3

C

7.1

D

7.3

51

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 53

The movement of minerals or water via plasmodesmata is known as:

A apoplast

B symplast

C vascular

D All of these

52

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 54

All of the following statements are correct EXCEPT:

A

The testicles produce millions of sperm.

B

Hormones are produced by the testicles.

C

Semen is produced in the seminal vesicles

D

All males are born with one testicle

53

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 55

Lipid molecules can store double amount of energy as compared to same amount of carbohydrate because of high number of?

A

C-C

B

C-H

C

C-N

D

C-O

54

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 56

ssRNA (+) that is transcribed into double-stranded DNA by

A DNA dependent DNA polymerase

B DNA dependent RNA polymerase

C . RNA dependent DNA polymerase

D RNA dependent RNA polymerase

55

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 57

The process of recombination in prokaryotes takes place in which of the following ways?

A transformation

B conjugation

C transduction

D all of these

56

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 58

If the non-protein part of Enzyme is covalently bonded to the enzyme it is known as?

A

coenzyme

B

cofactor

C

prosthetic group

D

activator

57

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 59

In klinefelter's syndrome:

A

One X chromosome is missing

B

Sex chromosome fail to segregate

C

Additional sex chromosome is present

D

None of these

58

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 60

Ascaris is characterized by which of the following?

A

Presence of true coelom and metamerism

B

Presence of true coelom but the absence of metamerism

C

Absence of true coelom but the presence of metamerism

D

Absence of true coelom and metamerism

59

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 61

Which of the following was considered as a missing link between reptiles and birds?

A

Pteranodon

B

Avimimus

C

Caudipteryx

D

Archaeopteryx

60

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 62

A defective virus that needs the unrelated help of virus to infect the same host cell in order to provide essential functions

A satellite virus

B HAV

C HCV

D HIV

61

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 63

The composition of brain stem is:

A spinal cord, axon, vertebra

B cerebrum, cerebellum, pons

C medula, pons, midbrain

D thalamus, midbrain, pons

62

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 64

Where does fertilization typically take place in the female?

A

uterus

B

ovaries

C

eggs

D

fallopian tube

63

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 65 Which of the following statement is NOT true?

A condyloid joint is triaxial

B synovial fluid reduces friction

C coronal suture is for parietal and frontal bone articulation

D synostosis is a bony joint

SKIPPED QUESTIONS 

64

 Previous Question

Next Question 

Q 66

The outer and inner membranes of mitochondria Spindle are?

A

Structurally and functionally different

B

Structurally different but functionally similar

C

Structurally and functionally similar

D

Structurally similar but functionally different

65

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 67

The pay-off phase of glycolysis conserved the

A

molecules of glucose

B

molecules of fructose

C

ATP

D

water

66

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 68

Which of the following acts as the thermoregulator region of the brain?

A cerebellum

B cerebrum

C hypothalamus

D thalamus

67

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 69

Which will evaporate faster; hot water in cup or cold water in a cup ?

A

Cold water

B

Hot water

C

Both evaporate at the same rate

D

Both evaporate slowly

68

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 70

What is the coordination number of Pt in $[\text{PtCl}(\text{NO}_2)(\text{NH}_3)_4]$

A

2

B

4

C

6

D

7

69

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 71

How much percentage of reactants is converted into products during half life period

A 40%

B 70%

C 50%

D 30%

SKIPPED QUESTIONS 

70

[< Previous Question](#)[Next Question >](#)

Q 72

Molecules of liquids are in constant state of motion, it causes

A diffusion

B evaporation

C melting

D both A & B

71

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 73

Carbon dioxide is an Example of

A

Ionic Solid

B

Metallic Solid

C

Molecular Solid

D

Covalent Solid

72

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 74

According to Bohr, the orbits in which electrons revolve around the nucleus are

A

oval

B

elliptical

C

cylindrical

D

circular

73

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 75

The value ionization energy of magnesium required to form magnesium ion is

A 738J/mol

B 738 KJ/mol

C 783J/mol

D 783 KJ/mol

74

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 76

Acetic acid is soluble in;

A Water, Alcohol, Ether

B HCl, HBr, HI

C Bromine water

D All of these

SKIPPED QUESTIONS 

75

< Previous Question

Next Question >

Q 77

Molten sodium burns with brilliant yellow flame in a chlorine atmosphere to form ____?

A

NaCl

B

NaOH

C

NaBr

D

clo

76

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 78

Why phenol is more acidic than Alcohol?

A

Due to presence of resonance in phenol

B

Due to absence of resonance of in alcohol

C

Both a and b

D

Because in phenol H is attach to O

77

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 79

What will be the value of work done at constant pressure in a pressure-volume system?

A

$$w = PV$$

B

$$w = \Delta PV$$

C

$$w = P\Delta V$$

D

$$w = P + \Delta V$$

78

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 80

Reaction of Aldehydes with Tollen's reagent results in formation of _____?

A

Red precipitate

B

Yellow precipitate

C

Silver mirror

D

Brick red precipitate

79

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 81

if 2 axes are of equal length and third is either shorter or longer than other two, all angles are 9

A

cubic system

B

tetragonal system

C

triclinic system

D

hexagonal system

80

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 82

Which one of the following is not an example of fatty acid?

A

Palmitic acid

B

Stearic acid

C

Acetic acid

D

Linolenic acid

81

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 83

From which of the following ketone can be prepared?

A

Propyne

B

Secondary alcohol

C

Ca Acetate

D

All of these

82

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 84

What is the reason for the reactivity of Grignard reagent?

A

Presence of Mg atom

B

Polarity of C-H bond

C

Polarity of C-Mg bond

D

Presence of electrophilic carbon

83

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 85 Evaporation is reverse of _____?

A Sublimation

B Freezing

C Melting

D Condensation

84

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 86

In proteins the H bonding is present between _____?

A

C-H

B

N-H

C

O-H

D

Cl-H

85

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 87

Calculate the mass of 1 dm³ of NH₃ gas at 3 °C and 1 mm hg pressure, considering that NH₃ is ideally behaving

A 0.99g

B 0.89g

C 0.9kg

D 0.78g

86

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 88 Albumin is water _____?

- A Soluble
- B Insoluble
- C Slightly soluble
- D Highly insoluble

87

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Q 89

X-ray work in 2th century shows that diameter of the atoms are of the order

A

.1nm

B

.2nm

C

.3nm

D

.4nm

88

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 90

Rate = $k [\text{NO}][\text{O}_3]$, the order of this reaction is

A

2

B

0

C

1

D

3

89

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 91

In a pressure cooker, boiling point of water is _____?

A

Raised than the normal

B

Lower than the normal

C

Lower than the freezing point

D

All of these

90

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 92

This is not a molecular solid

A

sugar

B

ice

C

boron nitride

D

solid iodine

91

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 93

Which of these have a positive value of enthalpy

A

Combustion

B

Neutralization

C

Atomization

D

All of these

92

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 94

Strong acid can be involved in a spontaneous reaction which is termed as

A

Addition Reaction

B

Substitution Reaction

C

Neutralization Reaction

D

Reversible Reaction

93

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 95

The density of a gas X is 6 times the density of a gas Y. If the molecular mass of X is M then what will be molecular mass of Y

A $M/6$ B $2M$ C $6M$ D $6/M$

94

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 96

Actual yield is always less than theoretical yield due to

A

operational losses

B

reaction reversibility

C

side reaction

D

all of these

95

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 97

Which one of the following has positive value?

A

Heat lost by the system

B

Work done on the system

C

Work done by the system

D

Positive ΔE when heat lost by the system

96

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 98

On reacting with which of the following carboxylic acids produce CO_2 ?

A Carbonate

B Bicarbonate

C Bisulphites

D Both a and b

97

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 99

Who was able to determine the distance b/w K^+ and Cl^- in potassium chloride crystal?

A

Bohr's

B

Pauling

C

Berzelius

D

Rutherford

98

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 100

The group formed by removal of one H atom from the benzene ring is called as _____?

A Alkyl group

B Benzyl group

C Phenyl group

D Ethyl group

99

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 100

The group formed by removal of one H atom from the benzene ring is called as _____?

A Alkyl group

B Benzyl group

C Phenyl group

D Ethyl group

99

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 101

Which of the following is an example of good leaving group?

A Cl^- B $^- \text{OH}$ C $^- \text{OR}$ D $^- \text{NH}_2$

100

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 102

Which one of the following is not a organic compound?

A

Urea

B

Methane

C

Carbon dioxide

D

Coal

101

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 103

The arrangement of sub shells or orbitals is according to _rule

A $2(l+1)$ B $l+1$ C $n+l$ D $2(n+l)$

102

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 104

The products of S_N1 reactions are formed with_____?

A

Retention in configuration

B

Inversion in Configuration

C

50% retention and 50% inversion in configuration

D

All of these

103

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 105

Standard Electrode potential is measured at

A

273K

B

293K

C

298K

D

292K

104

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 106

Formaldehyde is used in vat dyeing as?

A Coloring agent

B Dehydrating agents

C Decolorizing agent

D Solubilizing agent

105

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 107 An element becomes paramagnetic if it has_____?

- A Electric field
- B Paired valence electrons
- C Magnetic moment
- D None of these

106

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 108

vapor pressure is measured by calculating difference in liquid pressure and

A mercury pressure

B glass pressure

C atmospheric pressure

D container pressure

107

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 109

Dehydration of alcohols at low temperature and high acid concentration results in?

A

Alkene

B

Ether

C

Carboxylic acid

D

Aldehydes

108

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 110

The total number of transition elements are?

A

48

B

32

C

58

D

28

109

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 111

Which of the following is an example of aromatic carboxylic acid?

A

Ethanoic acid

B

Butanoic acid

C

Adipic acid

D

Phthalic acid

109

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 112

Which of the following has higher boiling point?

A

 NH_3

B

 H_2O

C

 HF

D

 CH_4

110

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 113

The geometry of butane is:

A octahedral

B Tetrahedral

C Trigonal planar

D Square planar

111

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 114

Alkali and alkaline earth metals impart colours when heated over the burner, it is due to

A

Smaller electronegativity of alkali metals

B

The smaller ionic radius of these metals

C

De-excitation of electrons from higher energy levels to low energy level

D

Excitation of electrons from low energy levels to higher energy levels

112

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 115

The lobes of d-orbitals lie between the axis

A

first two

B

first three

C

in all axis

D

none of these

113

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 116

Which one of the following does not give iodoform test ?

A Acetaldehyde

B 3-hexanone

C Butanone

D Acetone

114

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 117

Calculate mass in grams of 8.694 moles of Ag_2CO_3

A

1417.53g

B

2399.544g

C

3456.78g

D

1231.98g

115

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 118

If a graph is plotted with concentration data of a reactant in a chemical reaction the curve is

A

Rising

B

Falling

C

U shaped

D

None of these

116

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 119

Which enzyme is raised in rickets:

A Alkaline phosphatase

B LDH-1

C Acidic phosphatase

D None

117

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 120

Which of the following is a dihydric alcohol?

A

Ethanol

B

Methanol

C

Glycerol

D

Glycol

118

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 121

In Rhombohedral system, all three angles lies between _degree

A 9 & 45

B 9 & 2

C 9 & 12

D 12 & 18

119

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 122

In Down Cell anode is made up of

A Graphite

B Copper

C Iron

D Silver

120

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 123

Which of the following is slow step in SN1 reactions?

A

Ionization

B

Formation of carbocation

C

Formation of Double bond

D

Formation of Alkyl halide from Carbocation

121

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 124

Ammonia can form only one H-bond because of presence of

A

3 free electron

B

one lone pair of electron

C

5 electron in outer shell

D

none of these

122

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 125

Half wave rectifier uses

A one diode

B two diode

C three diodes

D Four diodes

123

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 126

Isotopes of an element have a different number of

A

proton

B

neutron

C

electron

D

atom

124

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 127

What is the duration of one cycle known as

A

period

B

cycle

C

instantaneous value

D

sin wave

125

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 128

Acceleration describes how:....

A

speed is changing

B

the speed and force are changing

C

the speed and direction of motion are changing

D

the direction of motion are changing

126

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 129

A solenoid bent into a circle is called

A

Resistor

B

capacitor

C

inductor

D

toroid

127

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 130

Basically a potentiometer is a device for

A Comparing two voltages

B Measuring a current

C Comparing two currents

D Measuring a voltage

128

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 131

1 kilo ohm = _____ ohm

A 10^3 ohmB 10^2 ohmC 10^4 ohm

D None of them

129

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 132

In Boyle's law, which quantity is constant

A

P

B

T

C

V

D

R

130

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 133

Which rays cannot be produced by electronic transitions?

A

alpha

B

beta

C

gamma

D

all of these

131

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 134

In fusion reaction of sun which element isotopes are used

A

O

B

C

C

U

D

H

132

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 135

In wave motion the least distance between two points which are out of phase is

A λ B 3λ C 4λ D $\lambda/2$

133

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 136

Sensitivity of a galvanometer is defined as

A The deflection produced per unit micro ampere current

B The deflection per force

C Force per unit area

D None of them

134

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 137

You have three capacitors, each of $3\ \mu\text{C}$. In which of the following combinations of the three capacitors, the resultant capacitance is $9\ \mu\text{C}$?

- A all three capacitors in series
- B two capacitors are in series, one in parallel
- C two capacitors are in parallel, one in series
- D all three capacitors in parallel

135

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 138

A sound wave travels from a region of hot air into a region of cold air. How does frequency and wavelength of sound change?

- A frequency decreases wavelength decreases
- B frequency increases wavelength decreases
- C frequency does not change wavelength decreases
- D frequency does not change wavelength does not change

136

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 139

SI unit of magnetic induction is

A

Weber

B

Gauss

C

Tesla

D

maxwell

137

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 140

According to Bohr's principle, what is the relation between the principal quantum number and the radius of the orbit?

A $r \propto n$

B $r \propto 1/n$

C $r \propto n^2$

D $r \propto 1/n^2$

138

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 141

Unit of relative permeability is

A

henry

B

henry/m

C

dimensionless

D

henry/sq. m

139

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 142

A man hold a bucket by applying force 10 N, then moves a horizontal distance of 5 m and vertical distance of 10 m, find out the net work done

A 100 J

B 150 J

C 50 J

D 200 J

140

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 143

Which of the following statement is not true about heat engine?

A

All real engines are less efficient than Carnot engine

B

All real engines are less efficient due to friction and heat losses

C

efficiency of Carnot engine working between same two temperatures, depends on the nature of working substance

D

the larger the temperature difference of two reservoirs, the greater is the efficiency

141

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 143

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A

All real engines are less efficient than Carnot engine

B

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D

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141

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 144

Which one of the following is not present in AC generator

A Armature

B Magnet

C slip rings

D Commutator

142

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 145

In case of spectrometer circular scale, graduated in half degree, is attached with

- A Telescope
- B Turntable
- C Cross wire of telescope
- D None of these

143

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 146

The resistance of a human body is about:

A

12 ohm

B

120 ohm

C

120K ohm

D

120M ohm

144

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 147

An ideal gas has a volume of 20 ml, a temperature of 10°C and a pressure of 100 kPa. The volume of the gas is reduced to 10 ml and the temperature is raised to 20°C . What is the new pressure of the gas?

A 370 kPa

B 207 kPa

C 400 kPa

D 27 kPa

145

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 148

An object is displaced from point A (0,1,1) m to point B (1,4,3) m under a constant force $F = (i + 2j + 3k)$. find the work done by this force in this process

A 13 J

B 15 J

C 0

D -13 J

146

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 149

Laplace expression for the speed of the sound in a gas is:

A

$$v = P/\rho$$

B

$$v = P \cdot \rho$$

C

$$v^2 = P \cdot \rho$$

D

$$v = \sqrt{\gamma P/\rho}$$

147

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 150

The distance between the consecutive wavefronts is equal to:

A one wavelength

B two wavelengths

C radius

D diameter

148

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 151

Which of the constants is not related to radiation

A boltzmann

B planck

C solar constant

D all of these

149

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 152

If a car is travelling eastward and slowing down, what is the direction of acceleration?

A

eastward

B

westward

C

neither eastward nor westward

D

we can not answer with this data

150

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 153

A transformer has negative voltage regulation when its load power factor is

A

Lagging

B

Leading

C

Unity

D

any of above

151

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 154

Which one of the following bulbs has the least resistance?

A 100W

B 200W

C 300W

D 60W

152

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 155

Three objects are brought close to each other, two at a time. When objects A and B are brought together, they repel. When objects B and C are brought together, they also repel. Which of the following are true?

A objects A and C possess charges of the same sign, but not B

B objects A and C possess charges of opposite sign

C all three objects possess charges of the same sign

D one object is neutral

153

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 156

Which of the following is a spin motion :

- A The motion of the planets round the sun
- B The motion of electron around the nucleus
- C The motion of the moon round the Earth
- D The daily rotation of Earth causing day and night

154

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 157

Which of the following about C_p and C_v is correct?

A $C_p + C_v = R$

B $C_p = R - C_v$

C $C_p + R = C_v$

D $C_p = R + C_v$

155

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 158

The angular velocity will become equal to linear velocity when r becomes

A

zero

B

negative

C

unity

D

they can never be equal

156

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 159

In microwave ovens ____ is used to heat the food

A

x-rays

B

beta rays

C

gamma rays

D

electromagnetic rays

157

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 160

The radioactive element when decay to first half life the new element is called

A daughter element

B modified element

C radioactive element

D all of these

158

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 161

The first law of thermodynamics can be stated as:

A $Q = \Delta U + W$

B $Q + \Delta U = W$

C $Q = \Delta U - W$

D $Q = \Delta U * W$

159

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 162

Electric field at a point varies as r^0 for

A a plane infinite sheet of charge

B A point charge

C Electric dipole

D Line charge of infinite length

160

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 163

Calculate the frequency if the number of revolutions is 300 and the paired poles are 50.

A 15 kHz

B 150 kHz

C 1500 kHz

D 150 Hz

161

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 164

Transformer is used in rectification to _____ the supply voltage

A

step up

B

step down

C

equalize

D

none of them

162

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 165

A body of mass 10 kg is moved parallel to the ground, through a distance of 2 m. The work done against gravitational force is

A zero

B 196 J

C -196 J

D 48 J

163

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 166

An object is displaced from position vector $r_1 = (2\mathbf{i} + 3\mathbf{j})\text{m}$ to $r_2 = (4\mathbf{j} + 6\mathbf{k})\text{m}$ under a force $F = (3x^2\mathbf{i} + 2y\mathbf{j})\text{ N}$. Find the work done by this force

A 55 J

B 83 J

C 0

D -83 J

164

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 167

If magnetic field vector is $B = (i + 2j + k)$ and area vector is $(2i + j + k)$ then flux related to this is

A 4wb

B 5 wb

C 6 wb

D 7 wb

165

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 168

After certain lapse of time, the fraction of radioactive polonium is found to be 12.5% of initial quantity. If the half life of polonium is 138 days, then duration of time lapse is.....days

A 34.5

B 276

C 414

D 125

166

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 169

In subatomic world things can be predicted with _____ precision

A

1

B

less than 1

C

absolutely no

D

none of these

167

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 170

A sample of 0.1g of water at 100 degree C and normal pressure ($1.013 \times 10^5 \text{ Nm}^{-2}$) requires 54 cal of heat energy to convert to steam at 100 degree C. If the volume of the steam produced is 167.1 cc, the change in internal energy of the sample, is

A 104.3 kJ

B 208.6 kJ

C 42.2 kJ

D 84.5 kJ

168

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 171

A positive point charge q_1 creates an electric field of magnitude E_1 at a spot located at a distance r_1 from the charge. The charge is replaced by another positive point charge q_2 , which creates a field of magnitude $E_2 = E_1$ at a distance of $r_2 = 2r_1$. How is q_1 related to q_2 ?

- A $q_2 = 4 q_1$
- B $q_2 = 2 q_1$
- C $q_2 = 0.5 q_1$
- D $q_2 = 0.25 q_1$

169

SKIPPED QUESTIONS 

< Previous Question

Next Question >

Q 172

Angular velocity of hour arm of a clock in radian/ sec is

A

$\pi/43200$

B

$\pi/21600$

C

$\pi/30$

D

$\pi/1800$

170

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 173

The photoelectric effect is not possible with ____ photons

A

x-rays

B

beta rays

C

gamma rays

D

all of these

171

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 174

A wire has a resistance of $5.5\ \Omega$ at 19°C and $21.5\ \Omega$ at 200°C . Find the temperature coefficient of resistivity(α) of the material.

- A 0.016 per degree celsius
- B 32 per degree celsius
- C 0.018 per degree celsius
- D 0.00106 per degree celsius

172

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 175

A steel wire hangs vertically from a fixed point, supporting a weight of 80 N at its lower end. The diameter of the wire is 0.50 mm and its length from the fixed point to the weight is 1.5 m. If density of steel wire = $7.8 \times 10^3 \text{ kg/m}^3$, then what is the fundamental frequency emitted from the wire.

A 76 Hz

B 176 Hz

C 50 Hz

D 150 Hz

173

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 176

1 light year distance is

- A distance travelled by earth in one year
- B distance travelled by star in one year
- C distance travelled by light in one year
- D distance travelled by light in one galactic year

174

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 177

If ^{238}U decay two gamma particles the new atomic number will be

A

 ^{238}U

B

 ^{234}U

C

 ^{237}U

D

none of these

175

SKIPPED QUESTIONS  Previous QuestionNext Question 

Q 178

The secondary turns of which of the following transformers is always kept closed for _____ transformer

A

power

B

voltage

C

current

D

step down

176

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 179

What is the power of a bulb if it is operated at 220V and the current in the circuit is 1.5 Amp

A 330 watt

B 430 watt

C 530 watt

D 500 watt

177

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Q 180

The phase angle between two points in a medium is $4\pi/5$. What is the separation between these two points if the wavelength of the wave is 5m.

A $5/4$ mB 4π m

C 2 m

D 10 m

178

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Demonstrate correct use of subject-verb agreement

Q 181

A large sum of money _____ stolen in last nights bank robbery.

A

is

B

are

C

was

D

were

179

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 182

Choose the correct spelling of the word

A

shoose

B

shoes

C

shews

D

sheos

180

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 183

Choose the correct sentence.

A

ali lives in dubai, the United arab emirates.

B

Ali lives in dubai, the united arab emirates.

C

Ali lives in Dubai, in the United Arab Emirates.

D

Ali lives in Dubai, the United Arab Emirates.

181

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 183

Choose the correct sentence.

A

ali lives in dubai, the United arab emirates.

B

Ali lives in dubai, the united arab emirates.

C

Ali lives in Dubai, in the United Arab Emirates.

D

Ali lives in Dubai, the United Arab Emirates.

181

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Demonstrate correct use of articles and prepositions

Q 184 Fetch ____ chair and sit down.

A a

B an

C the

D no article

SKIPPED QUESTIONS

182

< Previous Question

Next Question >

Demonstrate control of tenses and sentence structure

Q 185

When I go swimming. I have to keep my eyes closed underwater.

A complex

B simple

C compound

D None

183

SKIPPED QUESTIONS

< Previous Question

Next Question >

Demonstrate control of tenses and sentence structure

Q 186

It is a beautiful day today. The birds _____ (sing) in the trees.

A

sang

B

sing

C

are singing

D

were singing

184

SKIPPED QUESTIONS



< Previous Question

Next Question >

Demonstrate correct use of subject-verb agreement

Q 187

Both of my roommates _____ decided to live in the dorms.

A

has

B

have

C

had

D

will have left

185

SKIPPED QUESTIONS



< Previous Question

Next Question >

Comprehend key vocabulary

Q 188

sentiment

A

practical

B

emotion

C

dispassionate

D

realistic

186

SKIPPED QUESTIONS



< Previous Question

Next Question >

Comprehend key vocabulary

Q 189 His bag was quite _____ so I easily carried it to his room.

A cheap

B heavy

C light

D short

187

SKIPPED QUESTIONS

[< Previous Question](#)[Next Question >](#)

Demonstrate correct use of articles and prepositions

Q 190

Their car does 150 miles _____ hour.

A

a

B

an

C

the

D

no article

188

SKIPPED QUESTIONS



< Previous Question

Next Question >

Demonstrate control of tenses and sentence structure

Q 191

The national anthem _____ after the performance.

A

is sung

B

was sung

C

would sing

D

had sing

189

SKIPPED QUESTIONS



< Previous Question

Next Question >

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 192

What did you want to do that _____?

A

reason

B

for

C

because

D

thing

190

SKIPPED QUESTIONS

< Previous Question

Next Question >

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 193

we are

A

we're

B

were

C

wer'e

D

were'

191

SKIPPED QUESTIONS



< Previous Question

Next Question >

Demonstrate control of tenses and sentence structure

Q 194

Which tense would you use for describing last year's holiday?

A Present

B past

C future

D none of these

192

SKIPPED QUESTIONS



< Previous Question

Next Question >

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 195

Choose the correct spelling of the word

A

disappeared

B

disapeared

C

disapared

D

disapearred

193

SKIPPED QUESTIONS



< Previous Question

Next Question >

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 196

these have

A

theseve'

B

thes'eve

C

these've

D

the'seve

194

SKIPPED QUESTIONS



< Previous Question

Next Question >

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 197

If I had been thirsty (A)/ I would have (B)/ drank the lemonade (c)/ without waiting for you. (D)

A

If i had been thirsty

B

I would have

C

drank the lemonade

D

without waiting for you.

195

SKIPPED QUESTIONS

< Previous Question

Next Question >

Demonstrate correct use of articles and prepositions Demonstrate correct use of subject-verb agreement

Demonstrate correct use of writing conventions of spelling, capitalization and punctuation to clarify meaning

Q 198

Choose the correct sentence.

A The colors in the curtains are; yellow orange beige and tan.

B The colors in the curtains are yellow, orange, beige and tan.

C The colors in the Curtains are yellow, orange, beige and tan.

D The colors in the curtains are yellow orange beige and tan.

196

SKIPPED QUESTIONS

< Previous Question

Next Question >

Comprehend key vocabulary

Q 199 The doctors tried everything they could to the patient's blood pressure.

A produce

B reduce

C clarify

D hasten

SKIPPED QUESTIONS

197

< Previous Question

Next Question >

Demonstrate correct use of subject-verb agreement

Q 200

The bus _____ by the morning.

A

left

B

leaves

C

will leave

D

will have left

198

SKIPPED QUESTIONS



< Previous Question

Next Question >

Essential parts

Q 201

What should come next to it School

A

Bag

B

Pencil

C

shoes

D

Student

199

SKIPPED QUESTIONS



< Previous Question

Next Question >

Making Judgements

Q 202

Which is the largest ocean in the world?

A

Atlantic ocean

B

Pacific ocean

C

Arctic ocean

D

Indian ocean

200

SKIPPED QUESTIONS



< Previous Question

Next Question >

Statements and Actions

Q 203

Statement The Management of School M has decided to give free breakfast from next academic year to all the students in its primary section through its canteen even though they will not get any government grant. Courses of Action (I) The school will have to admit many poor students who will seek admission for the next academic year. (II) The canteen facilities and utensils have to be checked and new purchases to be made to equip it properly. (III) Funds will have to be raised to support the scheme for years to come.

A Only II and III follows

B Only III and I follow

C Only I and II follow

D Only I follows

201

SKIPPED QUESTIONS

Dependent Causes/ Independent Causes/

Q 204

Statement: The State bank of Pakistan has recently put restrictions on few small banks in the country. The small banks in the private and Co-Operative Sector in Pakistan are not in a position to withstand the competitions of the bigger in the public sector.

- A Statement I is the cause and statement II is its effect.
- B Statement II is the cause and statement I is its effect
- C Both the statements I and II are independent causes
- D Both the statements I and II are effects of independent causes

202

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Statements and Actions

Q 205

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A Both of them follows

B None of them follows

C Only I follows

D Only II follows

203

SKIPPED QUESTIONS [Previous Question](#)[Next Question](#)

Identify the number that follows the series.

Q 206

Look at this series: 22, 21, 23, 22, 24, 23, ... What number should come next?

A 22

B 24

C 25

D 26

204

SKIPPED QUESTIONS 

 Previous Question

Next Question 

Statements and conclusions

Q 207

All benches are chairs . Some chairs are roads . All roads are pillars. Conclusions : I – Some pillars are benches II – Some pillars are chairs. III – Some roads are benches IV – No pillar is bench

- A A . None follows
- B Only either I or IV , and III follows
- C Only either I or IV follows
- D Only either I or IV, and II follows

205

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Logical Games

Q 208

How many such pairs of letters are there in the word 'HISTORICAL' which have as many letters between them in the word as they have between them in the English alphabet?

A Four

B Seven

C Five

D eight

206

SKIPPED QUESTIONS [< Previous Question](#)[Next Question >](#)

Dependent Causes/ Independent Causes/

Q 209

Statement: The university authority has instructed all the colleges under its jurisdiction to ban use of all phones inside the college premises. Majority of the teachers of the colleges signed a joint petition to the university complaining the disturbances caused by cell phone ringtones inside the classrooms.

- A Statement I is the cause and statement II is its effect.
- B Statement II is the cause and statement I is its effect
- C Both the statements I and II are independent causes
- D Both the statements I and II are effects of some common cause

207

SKIPPED QUESTIONS ^

< Previous Question

Next Question >

Verbal Reasoning

Q 210

FESCO stands for _____

A

Faizabad Electricity Supply Company

B

Frontier Electricity Supply Company

C

Faisalabad Electric Supply Company

D

Federal Electric Supply Company

208

SKIPPED QUESTIONS  Previous Question

Submit

Q1 Who coined the term Animalcules for microorganisms like Bacteria and protozoa?

A Robert Koch

B Louis Pasteur

C Alexander Fleming

D Leeuwenhoek

< Previous Question

Next Question >

Q2 The time when the sex organs start to become active is called:

A the fertile period

B adulthood

C pregnancy

D puberty

< Previous Question

Next Question >

Q3

Two species can avoid competition, and better use the environment's resources by occupying different?

A

adaptations

B

polymorphism

C

niches

D

specialization

[< Previous Question](#)[Next Question >](#)

Q4

Spinal cord is the part of the:

A

Peripheral nervous system

B

Central nervous system

C

Autonomic nervous system

D

None of these

< Previous Question

Next Question >

Q5 The ability to pass on genes is defined as which of the following?

A differential reproduction

B evolution

C natural selection

D fitness

< Previous Question

Next Question >

Q6 Mutations in the sequence of genes are carried by only

A locus

B population

C allele

D genetic sequence

< Previous Question

Next Question >

Q7

The gap in the myelin sheath between adjacent Schwann cells is called?

A

dendrite

B

soma

C

node of ranvier

D

stroma

[< Previous Question](#)[Next Question >](#)

Q8

The glycerols are considered backbone of

A

DNA

B

RNA

C

ATP

D

Triglycerides

< Previous Question

Next Question >

Q9

Which statement is incorrect about ethylene production?

A

Climacteric is burst of respiratory activity in fruit ripening

B

It is associated with ethane production

C

It helps in fruit ripening

D

It helps in fruit set

[< Previous Question](#)[Next Question >](#)

Q10

The floor of the chest is called:

A

alveoli

B

trachea

C

diaphragm

D

bronchi

< Previous Question

Next Question >

Q11 Viruses that attack bacteria are called?

A Virophage

B Lysophage

C Bacteriophage

D None of the above

< Previous Question

Next Question >

Q12

Chlorophyll is insoluble in?

A

Water

B

Carbon tetrachloride

C

Alcohol

D

Organic Solvents

< Previous Question

Next Question >

Q13 A group of ribosomes attached to mRNA is known as?

A polymer

B polypeptide

C polysomes

D monomer

< Previous Question

Next Question >

Q14 The substrate binds to specific region of enzyme called?

A key

B active site

C hyperactive site

D none of these

< Previous Question

Next Question >

Q15 Which statement correctly outlines some of the main events in photosynthesis?

A

A 5C carbohydrate accepts carbon dioxide and is then reduced by NADPH derived from photophosphorylation

B

A 3C carbohydrate is regenerated and reduced by hydrogen molecules derived from photophosphorylation.

C

Photolysis uses light to produce reduced NADP and oxygen which are used to reduce a 3C carbohydrate.

D

Photolysis produces NADPH and ATP which are used to reduce a 5C carbohydrate

< Previous Question

Next Question >

Q16 What structure marks the separation between two sarcomeres?

A I band

B H zone

C A band

D Z line

< Previous Question

Next Question >

Q17 The oxidation phase of glycolysis is?

A energy consuming

B energy yielding

C net neutralization of energy

D both a and c

< Previous Question

Next Question >

Q18 Cell wall is only absent in following group of bacteria

A staphylococci

B Pseudomonas

C Diplococcus pneumonia

D Mycoplasmas

< Previous Question

Next Question >

Q19

The organelle serving as a primary packaging area for molecules that will be distributed throughout the cell is?

A

vacuole

B

plastids

C

lysosomes

D

golgi apparatus

< Previous Question

Next Question >

Q20 The numbers of capsomeres found in herpes virus capsid is?

A 162

B 200

C 234

D 155

< Previous Question

Next Question >

Q21 The number of spinal nerves along the spinal cord is

A 16

B 20

C 31

D 33

< Previous Question

Next Question >

Q22

XXY in case of *Drosophila* is a:

A

Fertile male

B

Sterile female

C

Fertile female

D

Sterile male

< Previous Question

Next Question >

Q23

What happens during muscle contraction to the length of each myosin and actin filament?

A

A band becomes short

B

I band elongates

C

There is no change in sarcomere

D

Z- lines get closer

[< Previous Question](#)[Next Question >](#)

Q24 The spermatic cord and spermatic duct are?

A the same

B different

C same in function

D same in location

< Previous Question

Next Question >

Q25

How does each photoexcited electron pass from PS1 to PS2?

A

ETC

B

chemiosmosis

C

photolysis

D

photosynthesis

< Previous Question

Next Question >

Q26

Lipids have great functional significance in the human body. What is the main functions of the lipids?

A

energy source

B

structure of membrane

C

mechanical protection

D

all of these

[< Previous Question](#)[Next Question >](#)

Q27

The function of the centrosome is?

A

osmoregulation

B

secretion

C

protein synthesis

D

formation of spindle fibres

< Previous Question

Next Question >

Q28

Darwins theory mainly focuses on

A

origin of life

B

how organs extinct

C

how new species arise

D

how organisms form

< Previous Question

Next Question >

Q29

The existence of microbes was confirmed by

A

Robert Kuch is work

B

Louis Pasteur's work

C

Linneaus's work

D

Ernst Hackel's work

< Previous Question

Next Question >

Q30 All of the following are the current preventive methods of HIV infection, except?

- A safe and protected lifestyle
- B use of sterile injections and needles
- C use of available vaccines
- D safe blood transfusion methods

< Previous Question

Next Question >

Q31 The single main opening of the sponge cavity is known as?

A Ostia

B Osculum

C Spongocoel

D both a and b

< Previous Question

Next Question >

Q32

Which part of the nervous is responsible for controlling reflex action?

A

Corpus callosum

B

Pons

C

vermis

D

spinal cord

[< Previous Question](#)[Next Question >](#)

Q33

In what category of bacteria does Neisseria most likely fall?

A

cocci

B

bacilli

C

spirochete

D

none of these

[< Previous Question](#)[Next Question >](#)

Q34 The skeleton of sponges is made up of which of the following?

A Calcium

B Silica

C both a and b

D none of these

< Previous Question

Next Question >

Q35

Feedback inhibition in most metabolic pathways involves which type of enzymes?

A

Holoenzymes

B

Coenzymes

C

Apoenzymes

D

Allosteric enzymes

[< Previous Question](#)[Next Question >](#)

Q36

The process through which organisms get oxygen for their cells from their surrounding environment is known as

A

Respiratory exchange

B

Gaseous exchange

C

Diffusion

D

Osmosis

[< Previous Question](#)[Next Question >](#)

Q37

The double layered thin membranous sacs that cover lungs are called:

A

alveoli

B

diaphragm

C

epithelial membrane

D

pleura

[< Previous Question](#)[Next Question >](#)

Q38 Prokaryotes are considered to be evolved how many years ago?

A 1.5 billion years ago

B 4.5 billion years ago

C 1000 million years ago

D 3.5 billion years ago

< Previous Question

Next Question >

Q39 True metamorphosis is not present in which of the following?

A Crustacea

B Insecta

C Myriapoda

D Arachnida

< Previous Question

Next Question >

Q40

Which scientists gave postulate that giraffes have long necks because they wanted to eat the leaves of tall trees?

A

Watson and Crick

B

Lamarck

C

Darwin

D

All of these

[< Previous Question](#)[Next Question >](#)

Q41 The spent energy in the form of ADP is regenerated by mitochondria into which of the following form?

A AMP

B ATP

C ADP

D all of these

< Previous Question

Next Question >

Q42

Binding of myosin head to actin generates muscle contraction. After muscle contraction the myosin head has to be removed from the actin. Which of the following accomplishes this task?

A

Binding of ATP to tropomyosin

B

Binding of calcium to troponin

C

Binding of troponin to actin

D

Binding of ATP to myosin head

[< Previous Question](#)[Next Question >](#)

Q43

Enteron in coelenterates acts as which of the following?

A

digestive cavity

B

body cavity

C

transporting cavity

D

all of these

< Previous Question

Next Question >

Q44 Asexual reproduction requires only a single parental organism which gives rise to offspring by?

A Meiotic cell division

B Mitotic cell division

C both a and b

D none of these

< Previous Question

Next Question >

Q45 Which cells secrete pepsinogen?

A Mucous

B Parietal

C Zymogen

D Oxyntic

< Previous Question

Next Question >

Q46

The experiment that simulated conditions thought to be present on the early earth

A

Hershey Chase experiment

B

Geiger Marsden experiment

C

Schiehallion experiment

D

Miller-Urey experiment

[< Previous Question](#)[Next Question >](#)

Q47 Breaking of terminal phosphate of ATP releases about Kcal of energy?

A 6.1

B 6.3

C 7.1

D 7.3

< Previous Question

Next Question >

Q48 The movement of minerals or water via plasmodesmata is known as:

A apoplast

B symplast

C vascular

D All of these

< Previous Question

Next Question >

Q49 All of the following statements are correct EXCEPT:

- A The testicles produce millions of sperm.
- B Hormones are produced by the testicles.
- C Semen is produced in the seminal vesicles
- D All males are born with one testicle

< Previous Question

Next Question >

Q50 ssRNA (+) that is transcribed into double-stranded DNA by

A DNA dependent DNA polymerase

B DNA dependent RNA polymerase

C . RNA dependent DNA polymerase

D RNA dependent RNA polymerase

< Previous Question

Next Question >

Q51

The process of recombination in prokaryotes takes place in which of the following ways?

A

transformation

B

conjugation

C

transduction

D

all of these

[< Previous Question](#)[Next Question >](#)

Q52

If the non-protein part of Enzyme is covalently bonded to the enzyme it is known as?

A

coenzyme

B

cofactor

C

prosthetic group

D

activator

[< Previous Question](#)[Next Question >](#)

Q53

In klinefelter's syndrome:

A

One X chromosome is missing

B

Sex chromosome fail to segregate

C

Additional sex chromosome is present

D

None of these

< Previous Question

Next Question >

Q54

Ascaris is characterized by which of the following?

A

Presence of true coelom and metamerism

B

Presence of true coelom but the absence of metamerism

C

Absence of true coelom but the presence of metamerism

D

Absence of true coelom and metamerism

[< Previous Question](#)[Next Question >](#)

Q55

Which of the following was considered as a missing link between reptiles and birds?

A

Pteranodon

B

Avimimus

C

Caudipteryx

D

Archaeopteryx

[< Previous Question](#)[Next Question >](#)

Q56

A defective virus that needs the unrelated help of virus to infect the same host cell in order to provide essential functions

A

satellite virus

B

HAV

C

HCV

D

HIV

< Previous Question

Next Question >

Q57

The composition of brain stem is:

A

spinal cord, axon, vertebra

B

cerebrum, cerebellum, pons

C

medula, pons, midbrain

D

thalamus, midbrain, pons

< Previous Question

Next Question >

Q58 Which of the following statement is NOT true?

A condyloid joint is triaxial

B synovial fluid reduces friction

C coronal suture is for parietal and frontal bone articulation

D synostosis is a bony joint

< Previous Question

Next Question >

Q59 The outer and inner membranes of mitochondria Spindle are?

- A Structurally and functionally different
- B Structurally different but functionally similar
- C Structurally and functionally similar
- D Structurally similar but functionally different

< Previous Question

Next Question >

Q60

The pay-off phase of glycolysis conserved the

A

molecules of glucose

B

molecules of fructose

C

ATP

D

water

[< Previous Question](#)[Next Question >](#)

Q61

Which of the following acts as the thermoregulator region of the brain?

A

cerebellum

B

cerebrum

C

hypothalamus

D

thalamus

[< Previous Question](#)[Next Question >](#)

Q62

Which will evaporate faster; hot water in cup or cold water in a cup ?

A

Cold water

B

Hot water

C

Both evaporate at the same rate

D

Both evaporate slowly

[< Previous Question](#)[Next Question >](#)

Q63

What is the coordination number of Pt in $[\text{PtCl}(\text{NO}_2)(\text{NH}_3)_4]$

A

2

B

4

C

6

D

7

< Previous Question

Next Question >

Q64

How much percentage of reactants is converted into products during half life period

A

40%

B

70%

C

50%

D

30%

< Previous Question

Next Question >

Q65

Carbon dioxide is an Example of

A

Ionic Solid

B

Metallic Solid

C

Molecular Solid

D

Covalent Solid

< Previous Question

Next Question >

Q66

According to Bohr, the orbits in which electrons revolve around the nucleus are

A

oval

B

elliptical

C

cylindrical

D

circular

[< Previous Question](#)[Next Question >](#)

Q67

The value ionization energy of magnesium required to form magnesium ion is

A

738J/mol

B

738 KJ/mol

C

783J/mol

D

783 KJ/mol

[< Previous Question](#)[Next Question >](#)

Q68

Acetic acid is soluble in;

A

Water, Alcohol, Ether

B

HCl, HBr, HI

C

Bromine water

D

All of these

< Previous Question

Next Question >

Q69

Molten sodium burns with brilliant yellow flame in a chlorine atmosphere to form ____?

A

NaCl

B

NaOH

C

NaBr

D

clo

[< Previous Question](#)[Next Question >](#)

Q70

Why phenol is more acidic than Alcohol?

A

Due to presence of resonance in phenol

B

Due to absence of resonance of in alcohol

C

Both a and b

D

Because in phenol H is attach to O

[< Previous Question](#)[Next Question >](#)

Q71

What will be the value of work done at constant pressure in a pressure-volume system?

A

$$w = PV$$

B

$$w = \Delta PV$$

C

$$w = P\Delta V$$

D

$$w = P + \Delta V$$

[< Previous Question](#)[Next Question >](#)

Q72

if 2 axes are of equal length and third is either shorter or longer than other two, all angles are 9

A

cubic system

B

tetragonal system

C

triclinic system

D

hexagonal system

[< Previous Question](#)[Next Question >](#)

Q73

Which one of the following is not an example of fatty acid?

A

Palmitic acid

B

Stearic acid

C

Acetic acid

D

Linolenic acid

[< Previous Question](#)[Next Question >](#)

Q74

From which of the following ketone can be prepared?

A

Propyne

B

Secondary alcohol

C

Ca Acetate

D

All of these

[< Previous Question](#)[Next Question >](#)

Q75

What is the reason for the reactivity of Grignard reagent?

A

Presence of Mg atom

B

Polarity of C-H bond

C

Polarity of C-Mg bond

D

Presence of electrophilic carbon

[< Previous Question](#)[Next Question >](#)

Q76 Evaporation is reverse of_____?

A Sublimation

B Freezing

C Melting

D Condensation

< Previous Question

Next Question >

Q77

In proteins the H bonding is present between ____?

A

C-H

B

N-H

C

O-H

D

Cl-H

< Previous Question

Next Question >

Q78

Albumin is water _____?

A

Soluble

B

Insoluble

C

Slightly soluble

D

Highly insoluble

< Previous Question

Next Question >

Q79

X-ray work in 2th century shows that diameter of the atoms are of the order

A

.1nm

B

.2nm

C

.3nm

D

.4nm

[< Previous Question](#)[Next Question >](#)

Q80

Rate = $k [\text{NO}][\text{O}_3]$, the order of this reaction is

A

2

B

0

C

1

D

3

[< Previous Question](#)[Next Question >](#)

Q81

In a pressure cooker, boiling point of water is_____?

A

Raised than the normal

B

Lower than the normal

C

Lower than the freezing point

D

All of these

[< Previous Question](#)[Next Question >](#)

Q82

This is not a molecular solid

A

sugar

B

ice

C

boron nitride

D

solid iodine

< Previous Question

Next Question >

Q83

Which of these have a positive value of enthalpy

A

Combustion

B

Neutralization

C

Atomization

D

All of these

[< Previous Question](#)[Next Question >](#)

Q84

Strong acid can be involved in a spontaneous reaction which is termed as

A

Addition Reaction

B

Substitution Reaction

C

Neutralization Reaction

D

Reversible Reaction

[< Previous Question](#)[Next Question >](#)

Q85

Actual yield is always less than theoretical yield due to

A

operational losses

B

reaction reversibility

C

side reaction

D

all of these

[< Previous Question](#)[Next Question >](#)

Q86

Which one of the following has positive value?

A

Heat lost by the system

B

Work done on the system

C

Work done by the system

D

Positive ΔE when heat lost by the system

[< Previous Question](#)[Next Question >](#)

Q87

On reacting with which of the following carboxylic acids produce CO_2 ?

A

Carbonate

B

Bicarbonate

C

Bisulphites

D

Both a and b

[< Previous Question](#)[Next Question >](#)

Q88

Who was able to determine the distance b/w K^+ and Cl^- in potassium chloride crystal?

A

Bohr's

B

Pauling

C

Berzelius

D

Rutherford

< Previous Question

Next Question >

Q89

The group formed by removal of one H atom from the benzene ring is called as _____?

A

Alkyl group

B

Benzyl group

C

Phenyl group

D

Ethyl group

[< Previous Question](#)[Next Question >](#)

Q90

Which of the following is an example of good leaving group?

A

 Cl^-

B

 $^- \text{OH}$

C

 $^- \text{OR}$

D

 $^- \text{NH}_2$

< Previous Question

Next Question >

Q91

Which one of the following is not a organic compound?

A

Urea

B

Methane

C

Carbon dioxide

D

Coal

[< Previous Question](#)[Next Question >](#)

Q92

The products of S_N1 reactions are formed with_____?

A

Retention in configuration

B

Inversion in Configuration

C

50% retention and 50% inversion in configuration

D

All of these

< Previous Question

Next Question >

Q93

Standard Electrode potential is measured at

A

273K

B

293K

C

298K

D

292K

< Previous Question

Next Question >

Q94

Formaldehyde is used in vat dyeing as?

A

Coloring agent

B

Dehydrating agents

C

Decolorizing agent

D

Solubilizing agent

< Previous Question

Next Question >

Q95 An element becomes paramagnetic if it has_____?

A Electric field

B Paired valence electrons

C Magnetic moment

D None of these

< Previous Question

Next Question >

Q96

vapor pressure is measured by calculating difference in liquid pressure and

A

mercury pressure

B

glass pressure

C

atmospheric pressure

D

container pressure

[< Previous Question](#)[Next Question >](#)

Q97

Dehydration of alcohols at low temperature and high acid concentration results in?

A

Alkene

B

Ether

C

Carboxylic acid

D

Aldehydes

< Previous Question

Next Question >

Q98

The total number of transition elements are?

A

48

B

32

C

58

D

28

< Previous Question

Next Question >

Q99

Which of the following is an example of aromatic carboxylic acid?

A

Ethanoic acid

B

Butanoic acid

C

Adipic acid

D

Phthalic acid

[< Previous Question](#)[Next Question >](#)

Q100

The geometry of butane is:

A

octahedral

B

Tetrahedral

C

Trigonal planar

D

Square planar

< Previous Question

Next Question >

Q101

Alkali and alkaline earth metals impart colours when heated over the burner, it is due to

A

Smaller electronegativity of alkali metals

B

The smaller ionic radius of these metals

C

De-excitation of electrons from higher energy levels to low energy level

D

Excitation of electrons from low energy levels to higher energy levels

[< Previous Question](#)[Next Question >](#)

Q102

The lobes of d-orbitals lie between the axis

A

first two

B

first three

C

in all axis

D

none of these

< Previous Question

Next Question >

Q103

Which one of the following does not give iodoform test ?

A

Acetaldehyde

B

3-hexanone

C

Butanone

D

Acetone

< Previous Question

Next Question >

Q104

Calculate mass in grams of 8.694 moles of Ag_2CO_3

A

1417.53g

B

2399.544g

C

3456.78g

D

1231.98g

< Previous Question

Next Question >

Q105

If a graph is plotted with concentration data of a reactant in a chemical reaction the curve is

A

Rising

B

Falling

C

U shaped

D

None of these

[< Previous Question](#)[Next Question >](#)

Q106

Which enzyme is raised in rickets:

A

Alkaline phosphatase

B

LDH-1

C

Acidic phosphatase

D

None

< Previous Question

Next Question >

Q107

In Rhombohedral system, all three angles lies between _degree

A

9 & 45

B

9 & 2

C

9 & 12

D

12 & 18

[< Previous Question](#)[Next Question >](#)

Q108

In Down Cell anode is made up of

A

Graphite

B

Copper

C

Iron

D

Silver

< Previous Question

Next Question >

Q109

Which of the following is slow step in SN1 reactions?

A

Ionization

B

Formation of carbocation

C

Formation of Double bond

D

Formation of Alkyl halide from Carbocation

< Previous Question

Next Question >

Q110 Ammonia can form only one H-bond because of presence of

- A 3 free electron
- B one lone pair of electron
- C 5 electron in outer shell
- D none of these

< Previous Question

Next Question >

Q111

Half wave rectifier uses

A

one diode

B

two diode

C

three diodes

D

Four diodes

< Previous Question

Next Question >

Q112

Isotopes of an element have a different number of

A

proton

B

neutron

C

electron

D

atom

< Previous Question

Next Question >

Q113

What is the duration of one cycle known as

A

period

B

cycle

C

instantaneous value

D

sin wave

< Previous Question

Next Question >

Q114

A solenoid bent into a circle is called

A

Resistor

B

capacitor

C

inductor

D

toroid

< Previous Question

Next Question >

Q115

Basically a potentiometer is a device for

A

Comparing two voltages

B

Measuring a current

C

Comparing two currents

D

Measuring a voltage

< Previous Question

Next Question >

Q116

1 kilo ohm = _____ ohm

A

 10^3 ohm

B

 10^2 ohm

C

 10^4 ohm

D

None of them

< Previous Question

Next Question >

Q117

In Boyle's law, which quantity is constant

A

P

B

T

C

V

D

R

< Previous Question

Next Question >

Q118

Which rays cannot be produced by electronic transitions?

A

alpha

B

beta

C

gamma

D

all of these

< Previous Question

Next Question >

Q119

In fusion reaction of sun which element isotopes are used

A

O

B

C

C

U

D

H

< Previous Question

Next Question >

Q120

In wave motion the least distance between two points which are out of phase is

A

 λ

B

 3λ

C

 4λ

D

 $\lambda/2$

< Previous Question

Next Question >

Q121

Sensitivity of a galvanometer is defined as

A

The deflection produced per unit micro ampere current

B

The deflection per force

C

Force per unit area

D

None of them

< Previous Question

Next Question >

Q122

A sound wave travels from a region of hot air into a region of cold air. How does frequency and wavelength of sound change?

- A frequency decreases wavelength decreases
- B frequency increases wavelength decreases
- C frequency does not change wavelength decreases
- D frequency does not change wavelength does not change

< Previous Question

Next Question >

Q123

SI unit of magnetic induction is

A

Weber

B

Gauss

C

Tesla

D

maxwell

< Previous Question

Next Question >

Q124

According to Bohr's principle, what is the relation between the principal quantum number and the radius of the orbit?

A

$$r \propto n$$

B

$$r \propto 1/n$$

C

$$r \propto n^2$$

D

$$r \propto 1/n^2$$

< Previous Question

Next Question >

Q125

Unit of relative permeability is

A

henry

B

henry/m

C

dimensionless

D

henry/sq. m

< Previous Question

Next Question >

Q126

A man hold a bucket by applying force 10 N, then moves a horizontal distance of 5 m and vertical distance of 10 m, find out the net work done

A

100 J

B

150 J

C

50 J

D

200 J

< Previous Question

Next Question >

Q127

Which of the following statement is not true about heat engine?

A

All real engines are less efficient than Carnot engine

B

All real engines are less efficient due to friction and heat losses

C

efficiency of Carnot engine working between same two temperatures, depends on the nature of working substance

D

the larger the temperature difference of two reservoirs, the greater is the efficiency

[< Previous Question](#)[Next Question >](#)

Q128

Which one of the following is not present in AC generator

A

Armature

B

Magnet

C

slip rings

D

Commutator

[< Previous Question](#)[Next Question >](#)

Q129

The resistance of a human body is about:

A

12 ohm

B

120 ohm

C

120K ohm

D

120M ohm

< Previous Question

Next Question >

Q130

An ideal gas has a volume of 20 ml, a temperature of 10°C and a pressure of 100 kPa. The volume of the gas is reduced to 10 ml and the temperature is raised to 20°C . What is the new pressure of the gas?

A

370 kPa

B

207 kPa

C

400 kPa

D

27 kPa

< Previous Question

Next Question >

Q131

An object is displaced from point A (0,1,1) m to point B (1,4,3) m under a constant force $F = (i + 2j + 3k)$. find the work done by this force in this process

A

13 J

B

15 J

C

0

D

-13 J

< Previous Question

Next Question >

Q132

Laplace expression for the speed of the sound in a gas is:

A

$$v = P/\rho$$

B

$$v = P \cdot \rho$$

C

$$v^2 = P \cdot \rho$$

D

$$v = \sqrt{\gamma P / \rho}$$

< Previous Question

Next Question >

Q133

The distance between the consecutive wavefronts is equal to:

A

one wavelength

B

two wavelengths

C

radius

D

diameter

[< Previous Question](#)[Next Question >](#)

Q134

Which of the constants is not related to radiation

A

boltzmann

B

planck

C

solar constant

D

all of these

< Previous Question

Next Question >

Q135

If a car is travelling eastward and slowing down, what is the direction of acceleration?

A

eastward

B

westward

C

neither eastward nor westward

D

we can not answer with this data

[< Previous Question](#)[Next Question >](#)

Q136

Which one of the following bulbs has the least resistance?

A

100W

B

200W

C

300W

D

60W

< Previous Question

Next Question >

Q137

Three objects are brought close to each other, two at a time. When objects A and B are brought together, they repel. When objects B and C are brought together, they also repel. Which of the following are true?

A objects A and C possess charges of the same sign, but not B

B objects A and C possess charges of opposite sign

C all three objects possess charges of the same sign

D one object is neutral

[< Previous Question](#)[Next Question >](#)

Q138

Which of the following is a spin motion :

A

The motion of the planets round the sun

B

The motion of electron around the nucleus

C

The motion of the moon round the Earth

D

The daily rotation of Earth causing day and night

< Previous Question

Next Question >

Q139

Which of the following about C_p and C_v is correct?

A

$$C_p + C_v = R$$

B

$$C_p = R - C_v$$

C

$$C_p + R = C_v$$

D

$$C_p = R + C_v$$

< Previous Question

Next Question >

Q140

The angular velocity will become equal to linear velocity when r becomes

A

zero

B

negative

C

unity

D

they can never be equal

[< Previous Question](#)[Next Question >](#)

Q141 In microwave ovens ____ is used to heat the food

A x-rays

B beta rays

C gamma rays

D electromagnetic rays

< Previous Question

Next Question >

Q142

The radioactive element when decay to first half life the new element is called

A

daughter element

B

modified element

C

radioactive element

D

all of these

[< Previous Question](#)[Next Question >](#)

Q143

The first law of thermodynamics can be stated as:

A

$$Q = \Delta U + W$$

B

$$Q + \Delta U = W$$

C

$$Q = \Delta U - W$$

D

$$Q = \Delta U * W$$

< Previous Question

Next Question >

Q144

Calculate the frequency if the number of revolutions is 300 and the paired poles are 50.

A

15 kHz

B

150 kHz

C

1500 kHz

D

150 Hz

[< Previous Question](#)[Next Question >](#)

Q145 Transformer is used in rectification to _____ the supply voltage

A step up

B step down

C equalize

D none of them

< Previous Question

Next Question >

Q146

A body of mass 10 kg is moved parallel to the ground, through a distance of 2 m. The work done against gravitational force is

A

zero

B

196 J

C

-196 J

D

48 J

< Previous Question

Next Question >

Q147

An object is displaced from position vector $r_1 = (2i + 3j)m$ to $r_2 = (4j + 6k)m$ under a force $F = (3x^2 i + 2y j) N$. Find the work done by this force

A

55 J

B

83 J

C

0

D

-83 J

< Previous Question

Next Question >

Q148

If magnetic field vector is $B = (i + 2j + k)$ and area vector is $(2i + j + k)$ then flux related to this is

A

4 wb

B

5 wb

C

6 wb

D

7 wb

< Previous Question

Next Question >

Q149

After certain lapse of time, the fraction of radioactive polonium is found to be 12.5% of initial quantity. If the half life of polonium is 138 days, then duration of time lapse is.....days

A

34.5

B

276

C

414

D

125

< Previous Question

Next Question >

Q150

In subatomic world things can be predicted with _____ precision

A

1

B

less than 1

C

absolutely no

D

none of these

[< Previous Question](#)[Next Question >](#)

Q151

A sample of 0.1g of water at 100 degree C and normal pressure ($1.013 \times 10^5 \text{ Nm}^{-2}$) requires 54 cal of heat energy to convert to steam at 100 degree C. If the volume of the steam produced is 167.1 cc, the change in internal energy of the sample, is

A

104.3 kJ

B

208.6 kJ

C

42.2 kJ

D

84.5 kJ

< Previous Question

Next Question >

Q152

A positive point charge q_1 creates an electric field of magnitude E_1 at a spot located at a distance r_1 from the charge. The charge is replaced by another positive point charge q_2 , which creates a field of magnitude $E_2 = E_1$ at a distance of $r_2 = 2r_1$. How is q_1 related to q_2 ?

A

$$q_2 = 4 q_1$$

B

$$q_2 = 2 q_1$$

C

$$q_2 = 0.5 q_1$$

D

$$q_2 = 0.25 q_1$$

< Previous Question

Next Question >

Q153

Angular velocity of hour arm of a clock in radian/ sec is

A

 $\pi/43200$

B

 $\pi/21600$

C

 $\pi/30$

D

 $\pi/1800$

< Previous Question

Next Question >

Q154

The photoelectric effect is not possible with ____ photons

A

x-rays

B

beta rays

C

gamma rays

D

all of these

[< Previous Question](#)[Next Question >](#)

Q155

A wire has a resistance of $5.5\ \Omega$ at 19°C and $21.5\ \Omega$ at 200°C . Find the temperature coefficient of resistivity (α) of the material.

A

0.016 per degree celsius

B

32 per degree celsius

C

0.018 per degree celsius

D

0.00106 per degree celsius

< Previous Question

Next Question >

Q156

A steel wire hangs vertically from a fixed point, supporting a weight of 80 N at its lower end. The diameter of the wire is 0.50 mm and its length from the fixed point to the weight is 1.5 m. If density of steel wire = $7.8 \times 10^3 \text{ kg/m}^3$, then what is the fundamental frequency emitted from the wire.

A

76 Hz

B

176 Hz

C

50 Hz

D

150 Hz

< Previous Question

Next Question >

Q157

1 light year distance is

A

distance travelled by earth in one year

B

distance travelled by star in one year

C

distance travelled by light in one year

D

distance travelled by light in one galactic year

< Previous Question

Next Question >

Q158

If ^{238}U decay two gamma particles the new atomic number will be

A

^{238}U

B

^{234}U

C

^{237}U

D

none of these

[< Previous Question](#)[Next Question >](#)

Q159

The secondary turns of which of the following transformers is always kept closed for _____ transformer

A

power

B

voltage

C

current

D

step down

< Previous Question

Next Question >

Q160

What is the power of a bulb if it is operated at 220V and the current in the circuit is 1.5 Amp

A

330 watt

B

430 watt

C

530 watt

D

500 watt

[< Previous Question](#)[Next Question >](#)

Q161

The phase angle between two points in a medium is $4\pi/5$. What is the separation between these two points if the wavelength of the wave is 5m.

A

5/4 m

B

 4π m

C

2 m

D

10 m

< Previous Question

Next Question >

Q162

A large sum of money _____ stolen in last night's bank robbery.

A

is

B

are

C

was

D

were

< Previous Question

Next Question >

Q163

Choose the correct spelling of the word

A

shoose

B

shoes

C

shews

D

sheos

< Previous Question

Next Question >

Q164

Choose the correct sentence.

A

ali lives in dubai, the United arab emirates.

B

Ali lives in dubai, the united arab emirates.

C

Ali lives in Dubai, in the United Arab Emirates.

D

Ali lives in Dubai, the United Arab Emirates.

< Previous Question

Next Question >

Q165

Fetch ____ chair and sit down.

A

a

B

an

C

the

D

no article

< Previous Question

Next Question >

Q166

When I go swimming, I have to keep my eyes closed underwater.

A

complex

B

simple

C

compound

D

None

[< Previous Question](#)[Next Question >](#)

Q167

It is a beautiful day today. The birds _____ (sing) in the trees.

A

sang

B

sing

C

are singing

D

were singing

< Previous Question

Next Question >

Q168

Both of my roommates _____ decided to live in the dorms.

A

has

B

have

C

had

D

will have left

[< Previous Question](#)[Next Question >](#)

Q169

sentiment

A

practical

B

emotion

C

dispassionate

D

realistic

< Previous Question

Next Question >

Q170 His bag was quite _____ so I easily carried it to his room.

A cheap

B heavy

C light

D short

< Previous Question

Next Question >

Q171 Their car does 150 miles _____ hour.

A a

B an

C the

D no article

< Previous Question

Next Question >

Q172

The national anthem _____ after the performance.

A

is sung

B

was sung

C

would sing

D

had sing

< Previous Question

Next Question >

Q173

What did you want to do that _____?

A

reason

B

for

C

because

D

thing

< Previous Question

Next Question >

Q174

we are

A

we're

B

were

C

wer'e

D

were'

< Previous Question

Next Question >

Q175

Which tense would you use for describing last year's holiday?

A

Present

B

past

C

future

D

none of these

[< Previous Question](#)[Next Question >](#)

Q176

Choose the correct spelling of the word

A

disappeared

B

disapeared

C

disapared

D

disapearred

< Previous Question

Next Question >

Q177

these have

A

these've

B

thes'eve

C

these've

D

the'seve

< Previous Question

Next Question >

Q178

If I had been thirsty (A)/ I would have (B)/ drank the lemonade (c)/ without waiting for you. (D)

A

If i had been thirsty

B

I would have

C

drank the lemonade

D

without waiting for you.

[< Previous Question](#)[Next Question >](#)

Q179

Choose the correct sentence.

A

The colors in the curtains are; yellow orange beige and tan.

B

The colors in the curtains are yellow, orange, beige and tan.

C

The colors in the Curtains are yellow, orange, beige and tan.

D

The colors in the curtains are yellow orange beige and tan.

< Previous Question

Next Question >

Q180

The doctors tried everything they could to the patient's blood pressure.

A

produce

B

reduce

C

clarify

D

hasten

[< Previous Question](#)[Next Question >](#)

Q181 The bus _____ by the morning.

A left

B leaves

C will leave

D will have left

< Previous Question

Next Question >

Q182

What should come next to it School

A

Bag

B

Pencil

C

shoes

D

Student

< Previous Question

Next Question >

Q183

Which is the largest ocean in the world?

A

Atlantic ocean

B

Pacific ocean

C

Arctic ocean

D

Indian ocean

< Previous Question

Next Question >

Q184

Statement The Management of School M has decided to give free breakfast from next academic year to all the students in its primary section through its canteen even though they will not get any government grant. Courses of Action (I) The school will have to admit many poor students who will seek admission for the next academic year. (II) The canteen facilities and utensils have to be checked and new purchases to be made to equip it properly. (III) Funds will have to be raised to support the scheme for years to come.

A

Only II and III follows

B

Only III and I follow

C

Only I and II follow

D

Only I follows

< Previous Question

Next Question >

Q184

Statement The Management of School M has decided to give free breakfast from next academic year to all the students in its primary section through its canteen even though they will not get any government grant. Courses of Action (I) The school will have to admit many poor students who will seek admission for the next academic year. (II) The canteen facilities and utensils have to be checked and new purchases to be made to equip it properly. (III) Funds will have to be raised to support the scheme for years to come.

A

Only II and III follows

B

Only III and I follow

C

Only I and II follow

D

Only I follows

< Previous Question

Next Question >

Q185

Statement: The State bank of Pakistan has recently put restrictions on few small banks in the country. The small banks in the private and Co-Operative Sector in Pakistan are not in a position to withstand the competitions of the bigger in the public sector.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect

C

Both the statements I and II are independent causes

D

Both the statements I and II are effects of independent causes

[< Previous Question](#)[Next Question >](#)

Q186

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A

Both of them follows

B

None of them follows

C

Only I follows

D

Only II follows

< Previous Question

Next Question >

Q187

Look at this series: 22, 21, 23, 22, 24, 23, ... What number should come next?

A

22

B

24

C

25

D

26

[< Previous Question](#)[Next Question >](#)

Q188

All benches are chairs . Some chairs are roads . All roads are pillars. Conclusions : I – Some pillars are benches II – Some pillars are chairs. III – Some roads are benches IV – No pillar is bench

A

A . None follows

B

Only either I or IV , and III follows

C

Only either I or IV follows

D

Only either I or IV, and II follows

< Previous Question

Next Question >

Q189

How many such pairs of letters are there in the word 'HISTORICAL' which have as many letters between them in the word as they have between them in the English alphabet?

A

Four

B

Seven

C

Five

D

eight

< Previous Question

Next Question >

Q190

Statement: The university authority has instructed all the colleges under its jurisdiction to ban use of all phones inside the college premises. Majority of the teachers of the colleges signed a joint petition to the university complaining the disturbances caused by cell phone ringtones inside the classrooms.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect

C

Both the statements I and II are independent causes

D

Both the statements I and II are effects of some common cause

[< Previous Question](#)[Next Question >](#)

Q191

FESCO stands for _____

A

Faizabad Electricity Supply Company

B

Frontier Electricity Supply Company

C

Faisalabad Electric Supply Company

D

Federal Electric Supply Company

< Previous Question

Next Question >

Q192

What is meant by enzyme denaturation?

A

Peptide bonds between amino acid residues are broken.

B

The enzyme loses its secondary structure.

C

The enzyme loses its tertiary structure.

D

All of the above.

[< Previous Question](#)[Next Question >](#)

Q193

The density of a gas X is 6 times the density of a gas Y. If the molecular mass of X is M then what will be molecular mass of Y

A

 $M/6$

B

 $2M$

C

 $6M$

D

 $6/M$

< Previous Question

Next Question >

Q194

Reaction of Aldehydes with Tollen's reagent results in formation of _____?

A

Red precipitate

B

Yellow precipitate

C

Silver mirror

D

Brick red precipitate

< Previous Question

Next Question >

Q195

What is the viral nucleocapsid made up of?

A

genome and capsid

B

capsid and spikes

C

envelope and capsid

D

capsomere and genome

< Previous Question

Next Question >

Q196

The most important function of troponin is?

A

bind with actin

B

bind with Ca^{2+} ions.

C

bind with tropomyosin.

D

all of these

< Previous Question

Next Question >

Q197

The outermost layer in a typical plant cell would be _____.

A

Primary cell wall

B

Secondary cell wall

C

Middle lamellae

D

Cell surface membrane

[< Previous Question](#)[Next Question >](#)

Q198

Most of the fossils are found in which of the following?

A

Metamorphic rocks

B

soil

C

Volcanic mountains

D

Sedimentary rocks

[< Previous Question](#)[Next Question >](#)

Q199 Molecules of liquids are in constant state of motion, it causes

A diffusion

B evaporation

C melting

D both A & B

< Previous Question

Next Question >

Q200

Calculate the mass of 1 dm³ of NH₃ gas at 3 °C and 1 mm hg pressure, considering that NH₃ is ideally behaving

A

0.99g

B

0.89g

C

0.9kg

D

0.78g

< Previous Question

Next Question >

Q201 The arrangement of sub shells or orbitals is according to _rule

A $2(l+1)$

B $l+1$

C $n+l$

D $2(n+l)$

< Previous Question

Next Question >

Q202

Lipid molecules can store double amount of energy as compared to same amount of carbohydrate because of high number of?

A

C-C

B

C-H

C

C-N

D

C-O

< Previous Question

Next Question >

Q203

Where does fertilization typically take place in the female?

A

uterus

B

ovaries

C

eggs

D

fallopian tube

< Previous Question

Next Question >

Q204

In case of spectrometer circular scale, graduated in half degree, is attached with

A

Telescope

B

Turntable

C

Cross wire of telescope

D

None of these

[< Previous Question](#)[Next Question >](#)

Q205

Which of the following has higher boiling point?

A

 NH_3

B

 H_2O

C

 HF

D

 CH_4

< Previous Question

Next Question >

Q206

You have three capacitors, each of $3\ \mu\text{C}$. In which of the following combinations of the three capacitors, the resultant capacitance is $9\ \mu\text{C}$?

A

all three capacitors in series

B

two capacitors are in series, one in parallel

C

two capacitors are in parallel, one in series

D

all three capacitors in parallel

[< Previous Question](#)[Next Question >](#)

Q207

A transformer has negative voltage regulation when its load power factor is

A

Lagging

B

Leading

C

Unity

D

any of above

[< Previous Question](#)[Next Question >](#)

Q208

Which of the following is a dihydric alcohol?

A

Ethanol

B

Methanol

C

Glycerol

D

Glycol

< Previous Question

Next Question >

Q209

Acceleration describes how:....

A

speed is changing

B

the speed and force are changing

C

the speed and direction of motion are changing

D

the direction of motion are changing

< Previous Question

Next Question >

Q210

Electric field at a point varies as r^0 for

A

a plane infinite sheet of charge

B

A point charge

C

Electric dipole

D

Line charge of infinite length

< Previous Question

Next Question >